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Impact of EXPRESS Amendment on 10303 Implementation Methods

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Summary

- **Extensions to EXPRESS**
  - **Found at**
    - `http://www.nist.gov/sc4/wg_qc/wg11/n104/WG11_N104.html`
  - **Add extensible constructed types**
  - **Separate supertype constraint from entity declaration**
  - **Allow abstract entity with generic attribute types**
  - **Add renaming of redeclared attributes**
  - **Add schema version identification**
  - **Add EXPRESS language version identification**
  - **Upward compatible except for new keywords**
- **Approved at New Orleans ISO in November to be registered as DIS**

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What to do… a completely different alternative

- **We can update some or all of the P2x standards based on the EXPRESS amendment**
  - Probably the best approach
- **As a completely different approach…**
  - We could standardize a mapping from EXPRESS amendment schemas to EXPRESS 1994 schemas
  - We could make minor update to P2x stating the amendment to IS mapping is required for that implementation method
  - An extension to SHTOLO could handle this
- **We could do both**

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What to do… a completely different alternative(2)

- **Sample Amendment to IS mappings**
  - Schema version id -> remark
  - Language version id -> remark
  - Abstract entity -> Abstract supertype, migrate attributes to subtypes
  - Rename redeclared -> lose this
  - Subtype constraint - >Create supertype constraints, lose or map totalover
  - Extensible select -> normal select
  - Extensible enum -> normal enum, lose compatibility of same named enum items